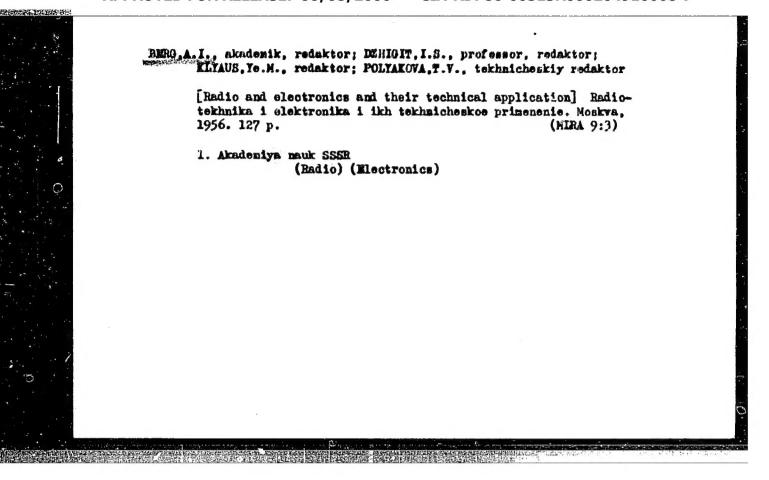
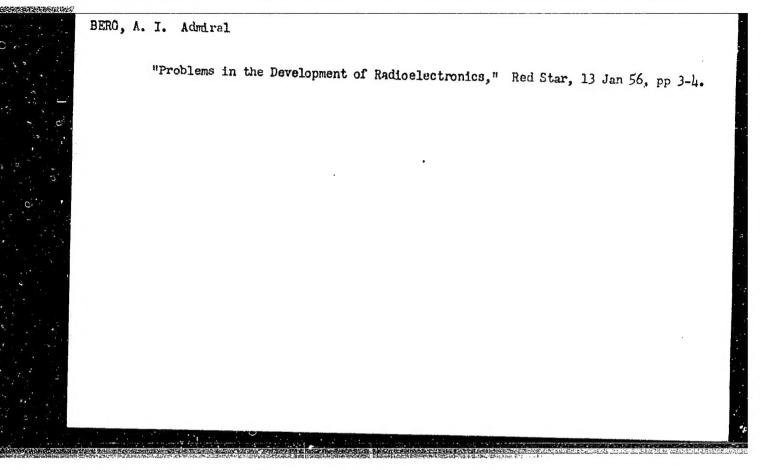


[Broadbandsmaplifiers]Shirekopelesnye usiliteli. Isd. 2-ee, perer. Moskva, Ges. energ. isd-ve, 1956, 110 p. (Massovaia radiobiblieteka no.240) (Amplifiers, Electron-tube) (MEA 9:5)





BERG, A. I.

"A report by Academician A. I. Berg entitled "The Development of Radio-Electronics in the USSR and Abroad" touched on all aspects of present-day radio engineering, the state of the technology of semiconductors, and the tasks which have to be accomplished by the industry and by scientific workers.

given at the conference on the Technology of Dielectrics and Semiconductors, Leningrad Electrotech. Inst. im. Ul'yanov (Lenin), June 1956.

Sum 1239

BERG, A., Eng. Admira., MBr. Acodemy

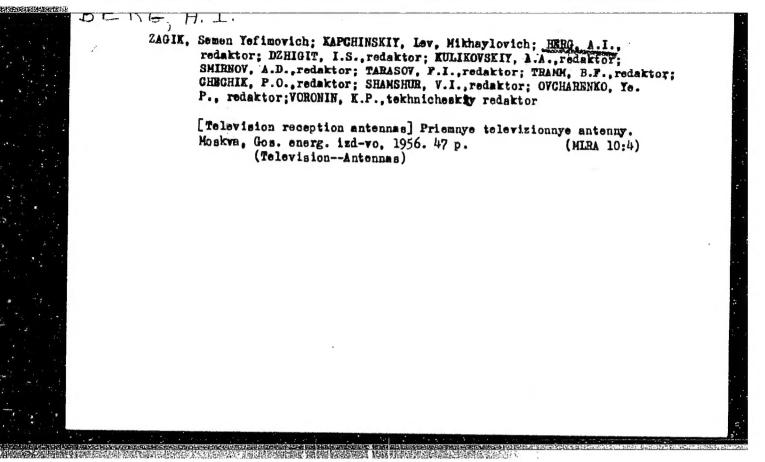
"Problems of Development of Redicelectronics," from the book Modern Military
Technology, 1956, page, 134.

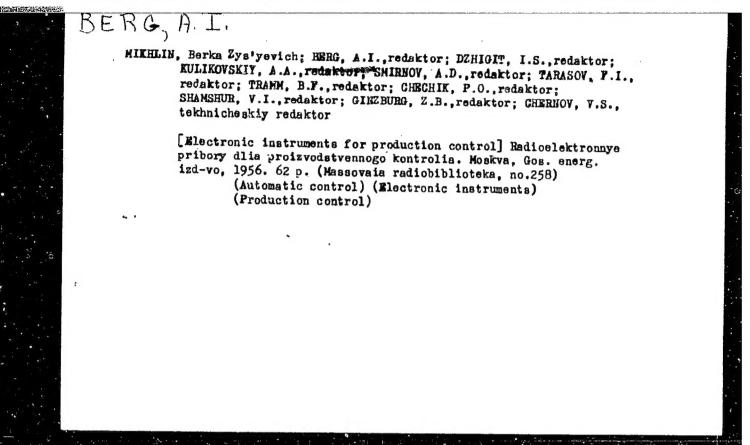
Translation 1114585

CHECHIK, Petr Oskarovich; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor
KULIKOYSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor TRAMM, B.F.,
redaktor; SHAMSHUR, V.I., redaktor; TARASOV, F.I., redaktor; VORONIH,
K.P., tekhnicheskiy redaktor

[New sources of current for radio apparatus] Novye istochniki pitaniia
radioapparatury. Moskva, Gos., energ., izd-vo, 1956, 39 p. (Massovaia
radiobiblioteka, no.257) (MIRA 10:5)

(Radio--Apparatus and supplies) (Electric batteries)





BERG, A.I.
USSR / Radiophysics. General Problems.

I-1

Abs Jour

: Ref Zhur - Fizika, No 5, 1957, No 12411

Author

: Berg, A.I.

Inst

: Not given

Title

: Tasks of the Higher School in the Development of Radio Electronics.

Orig Pub

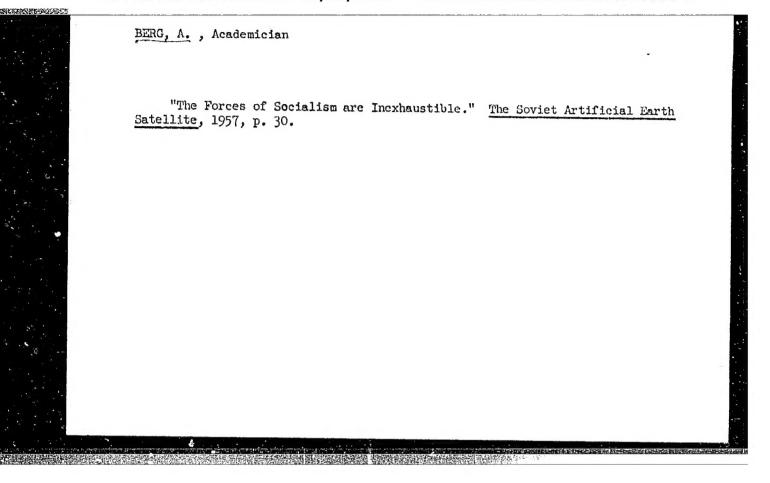
: Radiotekhn, i elektronika, 1956, 1, No 6, 689-694

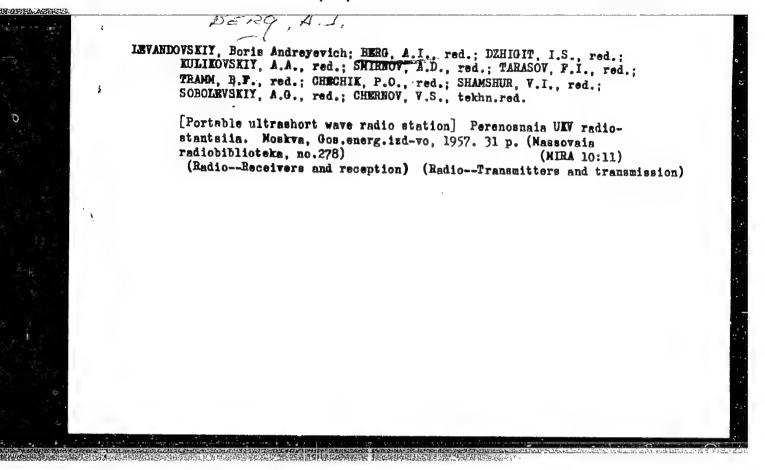
Abstract

: An abbreviated text of a report made at the Scientific Conference on Radio Physics and Radio Electronics in Gor'kiy 16 January 1956,

Card

: 1/1





KUPRIYANOVICH, Leonid Ivanovich.; RERG, A.I., redaktor. DZHIGIT, I.S., redaktor; KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TARASOV, P.I., redaktor. TRAMM, B.F., redaktor; CHECHIK, M.O., redaktor; SMARSHUR, V.I., redaktor; TARASOV, P.I., redaktor; VORONIN, K.P., tekhnicheskiy redaktor.

[Pecket transceivers] Karmannye radiostantsii. Moskva, Gos.energ. izd-vo, 1957. 31 p. (Massovaia rediobiblioteka, no.267)

(MIRA 10:6)

(Radio--Apparatus and supplies)

TAKOVIEV, Valeriy Vladimirovich; HERG, A.L., redaktor; EZHIGIT, I.S., redaktor; KULIKOVSKIY, A.A., redaktor; SMIENOV, A.D., redaktor; TARASOV, F.I., redaktor; CHECHIK, P.O., redaktor, SHAMSHUR, V.I., redaktor; PIENKIN, Yu.N., redaktor; MEDVEDEV, L.M., tekhnicheskiy redaktor.

[Amateurs' receiving sets using transistors] Liubitel'skie priemniki na poluprovodnikovykh triodekh. Moskvas, Gos.energ.izd-vo, 1957, 39 p. (Massovala radiobiblioteka, no.275)

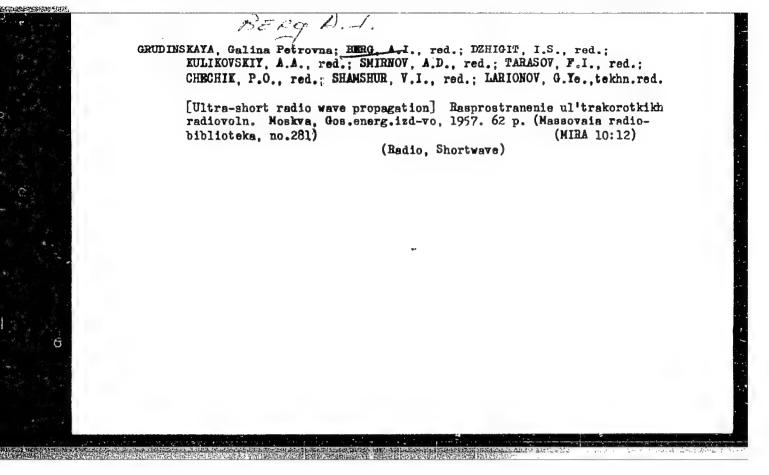
(MIRA 10:11)

(Radio--Receiver and reception) (Transistors)

TARASOV, F.I.; HERG, A.I., redaktor; DZHIGIT, I.S., redaktor; KULIKOVSKIY,
A.A., redaktor; SMIDHOV, A.D., redaktor; TARASOV, P.I., redaktor;
TRANK, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUE, V.I.,
redaktor; YENYUMIN, V.V., redaktor; MEDVEDEV, L.Ta.,
tekhnicheskly redaktor

[Disgrams of low-frequency amplifiers for smateurs] Skhemy
radioliubitel'skikh usilitelei nizkoi chastoty. Moskva, Gob.
energ. ind-vo, 1957. 61 p. (Massovaia radiobiblioteka, no. 264)

(Amplifiers, Electron-tube)

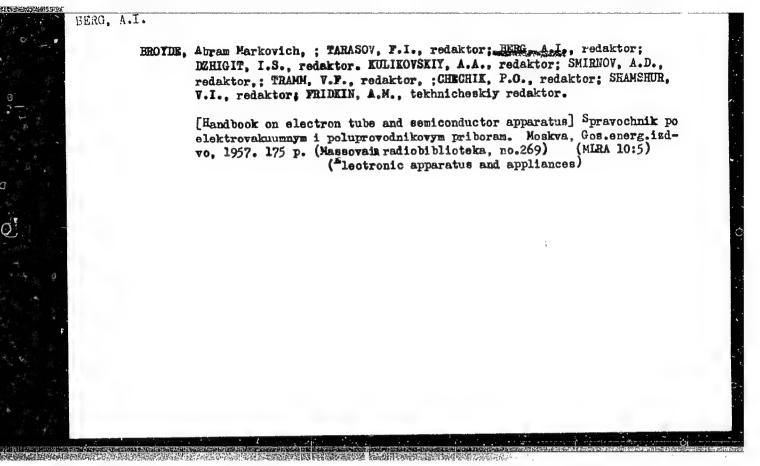


KAZARYAN, Bafael' Avetisovich; KUVSHINOV, Boris Ivanovich; HAZAROV,
Mikhail Vasil'yevich, BERG, A.I., redaktor; DZHIGTT, I.S., redaktor;
KULIKOVSKIY, A.A., redaktor; SMTRNOV, A.D., redaktor;
TARASOV, P.I., redaktor; TRANN, B.P., redaktor; GHECHIK, P.O., redaktor;
SHAMSHUR, V.I., redaktor; RHARKEVICH, A.A., redaktor; HEDVEDRY,
L. Ya., tekhnicheskiy redsktor

[Elements of the general theory of communications] Elementy
obshchei teorii sviazi. Moskva, Gos. energ. izd-vo. 1957.
94 p. (Massovaia radiobiblioteka, no.263)

(MIRA 10:4)

(Felecommonication)



107-57-1-2/60

AUTHOR: Academician A.I. Berg. Academician B.A. Vvedenskiy, Academician S.A. Vekshinskiy, Academician V.A. Kotel'nikov, Corresponding Member AS USSR A.L. Mints, Corresponding Member AS USSR A.A. Pistol'kors, Corresponding Member AS USSR

V.I. Siforov TITLE: Search, Dare, Create (Ishchite, derzayte, tvorite)

PERIODICAL: Radio, 1957, Nr 1, p 1 (USSR)

ABSTRACT: This is an open letter, an appeal to radio amateurs to experiment boldly, to create new designs, to promote new ideas in application of radio and electronics in industry, farming, transportation, and communication. The role of radio amateurism as a preparatory school for radio specialists in industry is noted. Achievements of radio and electronics are considered as a basis of development of all sciences, production, and even planning. Radio amateurs are urged to search, to dare, and to create.

AVAILABLE: Library of Congress

Card 1/1

Borney, A.I.

AUTHOR:

Berg, A.I., Academician

4-11-9/34

TITLE:

Young Friends (Yunyye druz'ya)

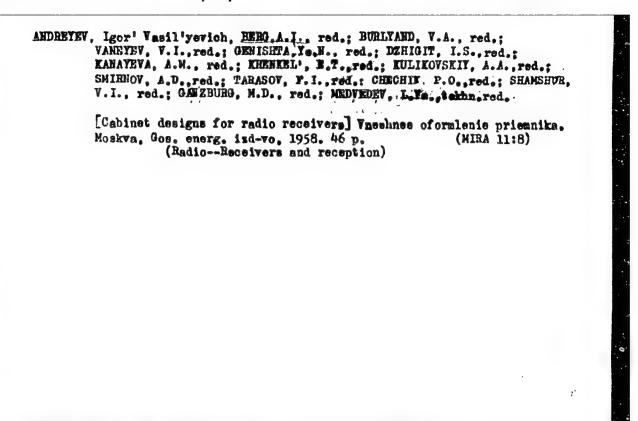
PERIODICAL: Znaniye - Sila, 1957, # 11, p 9 (USSR)

ABSTRACT:

The author states that during centuries the endeavors of scientists have been directed to achieve an increase in the productiveness of physical work. This has resulted in technical progress. He refers to electronics which have opened possibilities for an increase of intellectual labor on a scale unheard of before. The author has been working in the field of radio-electronics for about 40 years, and states that the speed of its development has considerably outrun that of the adjoining fields of science. There is I figure.

AVAILABLE: Library of Congress

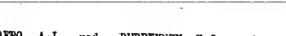
Card 1/1



MEERSON, Anatoliy Meyerovich, BERG, A. I., red.; BURGLIAND, V.A., red.;
VANETEV. V.I., red.; GRHISHTE, Ye.N., red.; DZHIGHT, I.S., red.;
KANATEVA, A.M., red.; HERMELL, E.T., red.; KULIKOVSKIY, A.A., red.;
SM LRHOV, A.D., red.; TARASOV, F.I., red.; CHECHIK, P.O., red.[decesed]
SHAMSHUR, V.I., red.; BORUNOV, N.I., tekhn.red.

[Testing radio tubes] Ispytanie radiolamp, Moskva, Gos. energ.
izd-vo, 1958. 61 p. (Massovala radiolibitoteka, no.303) (MIRA 11:9)

(Electron tubes—Testing)

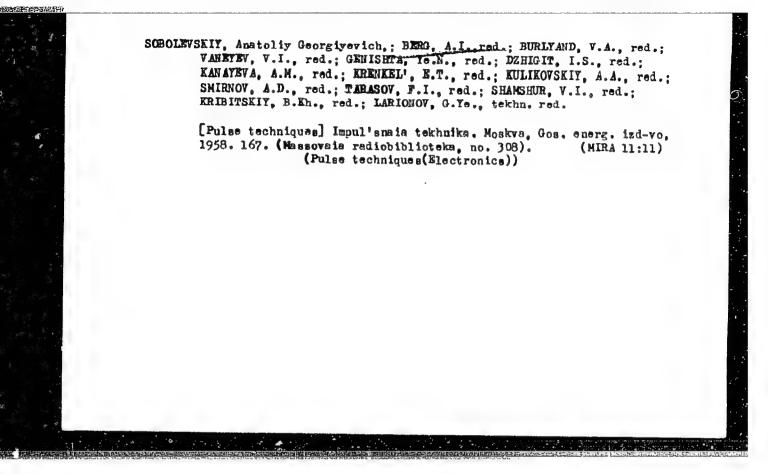


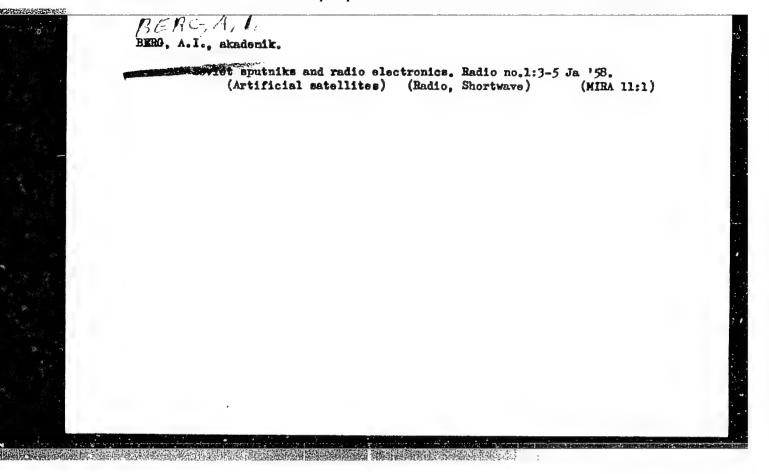
(MIRA 11:11)

EUGUSHEV, Aleksandr Mikhaylovich, BERG, A.I., red.; BURDEYNYY, F.I., red.;
BURLYAND, V.A., red.; VANEYEV, V.I., red.; GENISHTA, Ye.N., red.;
DZHIGIT, I.S., red.; KANAYEVA, A.M., red.; KRENKEL', E.T., red.;
KULIKOVSKIY, A.A., red.; SMIRNOV, A.D., red.; TARASOV, F.I., red.;
CHECHIK, P.O., red.; SHAMSHUR, V.I., red.; BORUHOV, N.I., tekhn. red.

[Modern radio electronics] Sovremennaia radioelektronika. Moskva,
Gos. energ. izd-vo, 1958. 62 p. (Massovais radiobiblioteka, no. 300).

(Electronics)





BERG, Aksel¹ Ivanovich, akademik; FAYNBOYN, I.B., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[A.S.Popov, radioelectronics, and progress] A.S.Popov, radioelektronika i progress. Moskva, Izd-vo "Znanie," 1959. 29 p. (Vsesoiuznos obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.9, Fizika i khimia, no.14)

(Popov, Aleksandr Stepanovich, 1859-1905)
(Radio)

POPOV, Aleksandr Stepanovich [deceased]; RADOVSKIY, M.I.; BERG, A.I., red.; KARASEV, M.D., red.; AKHLAMOV, S.H., tekhn.red.

[Wireless telegraphy; collection of articles, reports, letters, and other materials] O besprovolochnoi telegrafii; sbornik statei, dokladov, pisem i årugikh materialov. Pod red. i so vstup.stat'ei A.I.Berga. S primechaniami M.I.Radovskogo.

Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 218 p. (MIRA 12:12)

(Telegraph, Wireless)

9 (2)

SOV /107-59-3-6/52

AUTHOR:

Berg, A.I., Academician, Laureate of the Gold Medal Imeni A.S. Popov

TITLE:

The Basis for Technical Progress (Osnova tekhniches-

kogo progressa)

PERIODICAL: Radio, 1959, Nr 3, pp 8 - 9 (USSR)

ABSTRACT:

On the occasion of the 100 anniversary of A.S. Popov's

birthday, the author reviews the application of

radio electronics in sciences, astronomy, optics, medicine and biology. In conclusion the author points out that electronic instruments are highly reliable and possess high efficiency factors. Therefore they will find large-scale application in the automation of production processes, not only of single machine tools, but of entire manufacturing departments. Elec-

tronic computer engineering has an important place in this development. Computers will control production

Card 1/2

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000204910008-7"

SOV/107-59-3-6/52

The Basis for Technical Progress

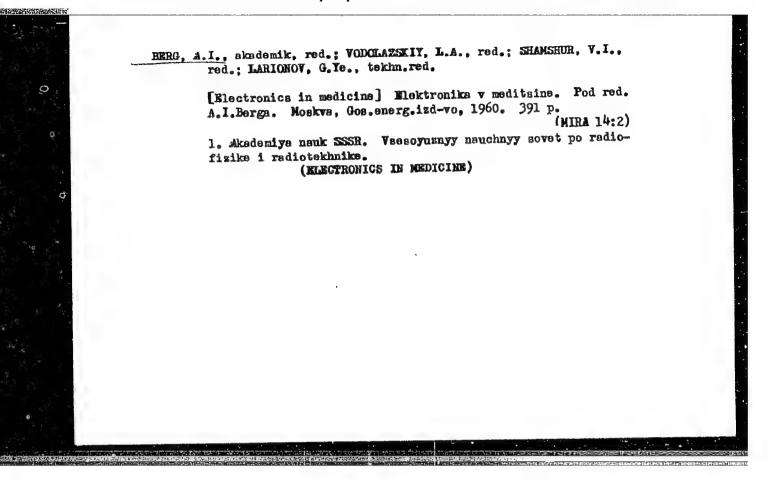
processes, they will determine the most favorable technological conditions and may also be used for statistical and/or book keeping purposes. There is one photograph of A.I. Berg.

Card 2/2

POPOV, Petr Aleksandrovich; HERG, A.I., red.; BURDEYHYY, F.I., red.;
BURLYAND, V.A., red.; VANEYEV, V.I., red.; GENISHTA, Yo.H.,
red.; DZHIGIT, I.S., red.; KANAYEVA, A.M., red.; KRRMKED',
E.T., red.; KULIKOVSKIY, A.A., red.; SHIRHOV, A.D., red.;
TARASOV, F.I., red.; SHAMSHUR, V.I., red.; KULIKOVSKIY, A.A.,
red.; LARIOHOV, G.Ye., tekhn. red.

[Design of audio frequency trensistor amplifiers] Raschet
trenzistornykh usilitelei zvukovoi chastoty, Moskva, Gos.
energ. izd-vo, 1960. 103 p. (Massovaya rediobiblioteka, no.378)
(MIRA 14:5)

(Transistor amplifiers)



والمنافقة أنافو 5/142/60/000/01/001/022 E140/E463

AUTHOR:

Berg, A.I.

TITLE:

Electronics and Cyberneti

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,

1960, Nr 1, pp 3-12 (USSR)

ABSTRACT:

A shortened text of a lecture given at the Faculty of Automation and Computing Technique of the Moscow Order of Lenin

Power Engineering Institute in September, 1959.

The lecture contains well-known generalities on

cybernetics dealing with theory of information, one page;

application of cybernetics in biology, two pages;

application of cybernetics in linquistics, half a page; application in sociology and economics, one page (this is

the first reference in Soviet literature known to the abstractor in which the term sociology is used without

denunciation); application in industry, one page. In conclusion the author calls for the establishment of

a school of "Soviet Cybernetics, free of the errors of

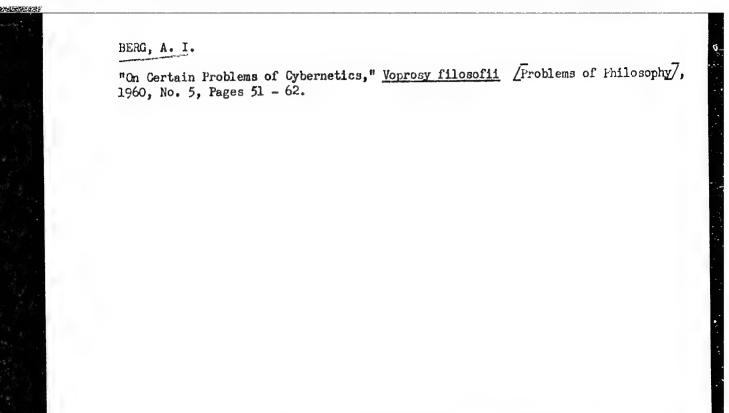
bourgeois science" (in the author's words).

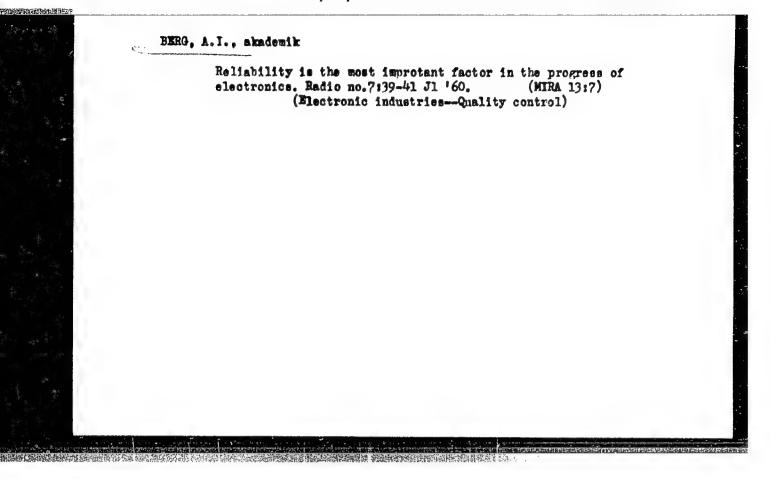
SUBMITTED:

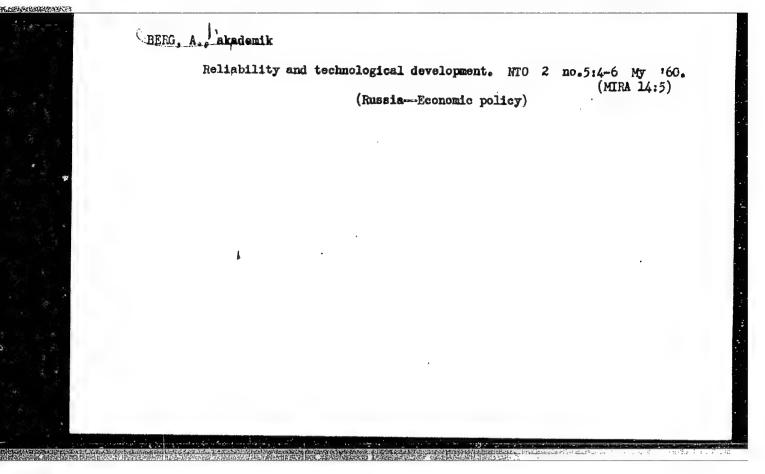
October 22, 1959

Card 1/1

Chair of Automatics and Telemechanics, Moscow OL Power Engineering Inst.







SIFOROV, V.; BERG, A.I., akademik; MINTS, A.L., akademik; KUGUSHEV, A.M., doktor tekhn.nauk, pof.

Supporting the appeal of chemists. NTO 2 no.5:38 My :60.

(MIRA 14:5)

1. Chlen-korrespondent Akademii nauk SSSR, predsedatel' TSentral'nogo pravleniya nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S. Popova (for Siforov). 2. Chleny TSentral'nogo pravleniya nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S. Popova (for Berg, Mints). 3. Predsedatel' Moskovskogo oblastnogo pravleniya nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S. Popova (for Kugushev).

(Technical societies) (Radio research)

S/029/60/000/010/002/006 B024/B067

AUTHOR:

Berg, A. I., Academician

TITLE:

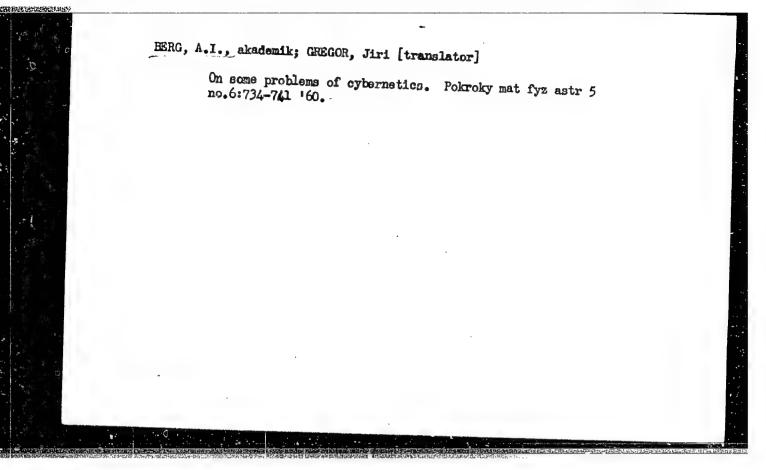
Problem Number One - Dependability

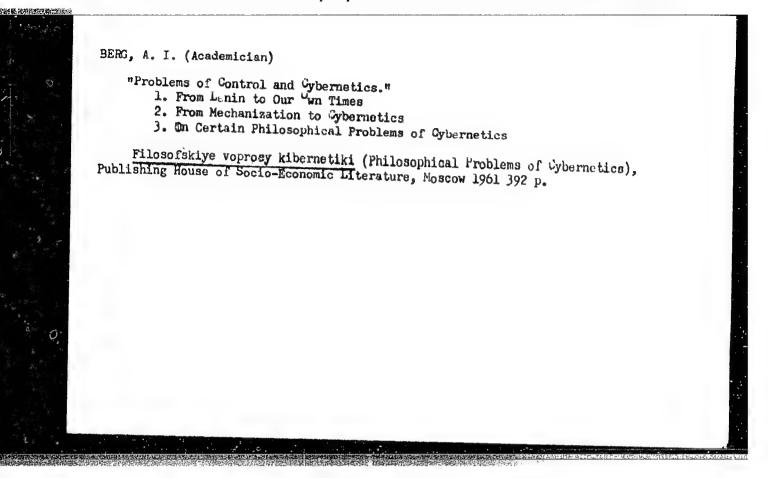
PERIODICAL:

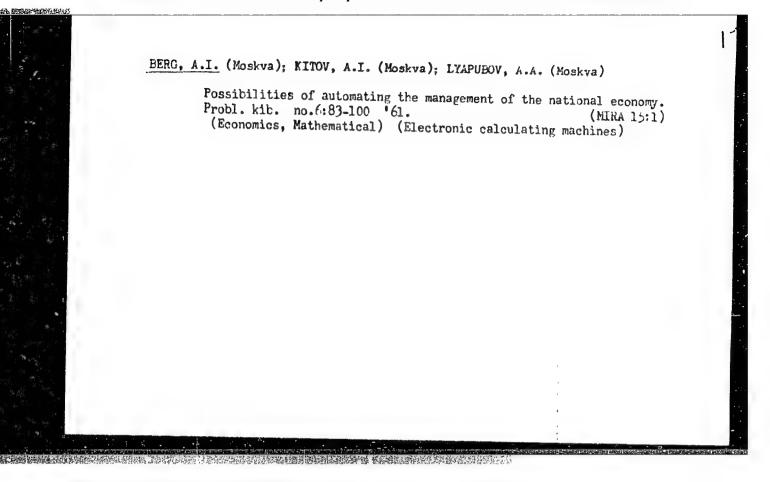
Tekhnika molodezhi, 1960, No. 10, pp. 7-10

TEXT: The author discusses the problem of improving the quality of industrial products, above all dependability. The entire evolution of mankind is an imitation of nature, which eventually led to the technical imitation of the human brain - to molecular electronics. The cooperation between man and automatic machines is very important since the limitation of the man's psychic possibilities may become particularly dangerous when the automatic machine fails. The problem of dependability includes a large number of complicated problems, e.g., the development of a complex system that is more dependable than its components, and the development of analogies, models, and directions describing in a simplified form the complex system which must be reliably controlled.

Card 1/1





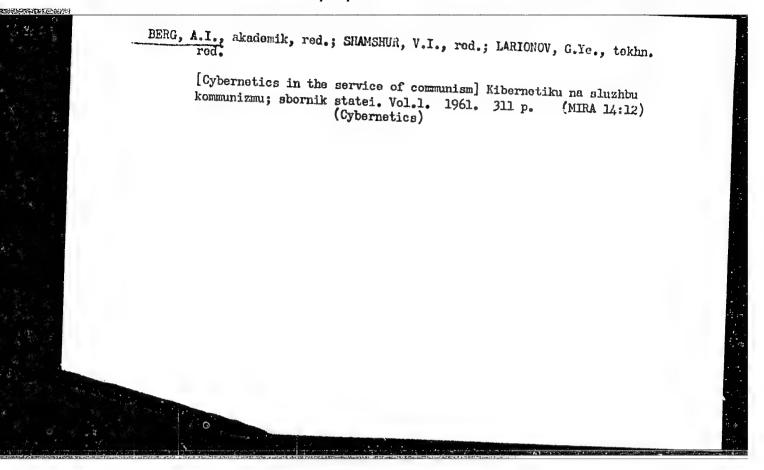


BERG, A. I. and LYAPUNOV, A. A. (Prof.)

"On Prospects of Utilization of Computers in the Government Organization"

presented at the All-Union Conference on Computational Mathematics and Computational Techniques, Moscow, 16-28 November 1961

So: Problemy kibernetiki, Issue 5, 1961, pp 289-294



\$/194/61/000/011/030/070 D256/D302

AUTHOR:

Berg, A.I.

TITLE:

Cybernetics and certain technical problems of nation-

al economy control

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 11, 1961, 43-44, abstract 11 V355 (Vopr. filosofil, 1961, no. 2, 11-24, 183 (summary in English))

It is pointed out that steps are being taken in the USSR to introduce during the next few years a wide use of modern computers and other methods of obtaining information and its treatment and distribution. Machines and systems for automation of industrial production and mechanization of work of technical-engineering and administrative staffs are being developed and introduced into various branches of the national economy. New types of computers are developed as well as systems for analyses of economy, planning, statistics and accountancy. Wide studies are being conducted in the

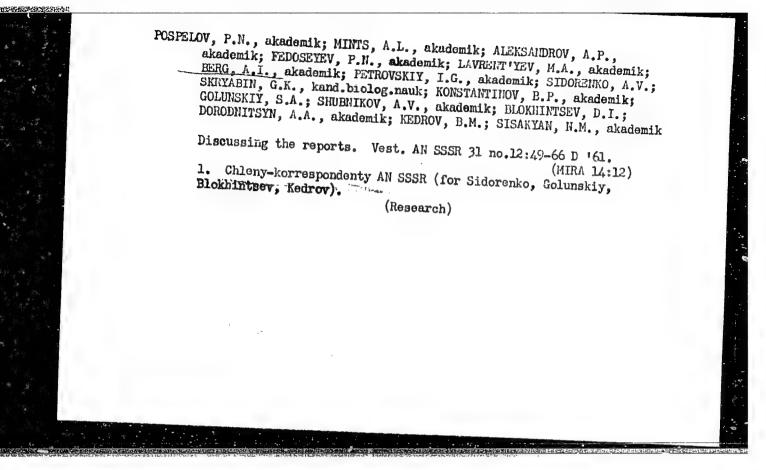
Card 1/2

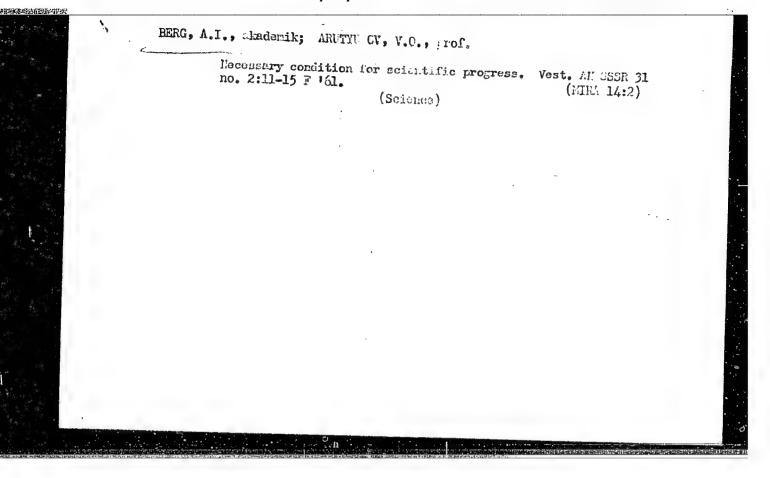
Cybernetics and certain technical...

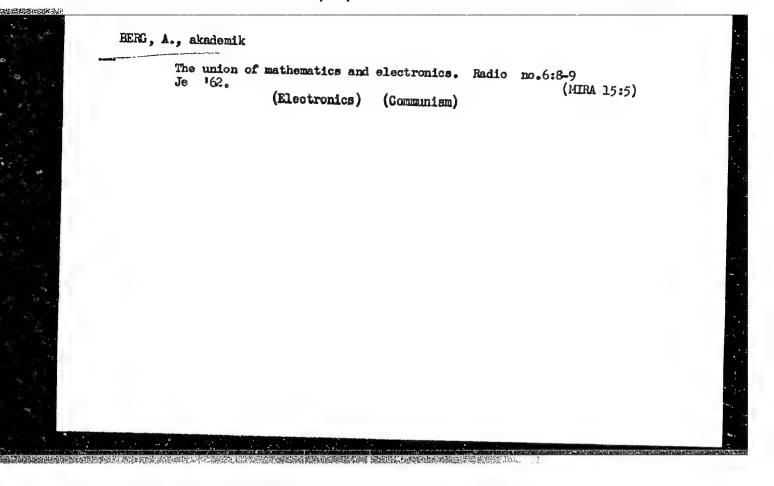
\$\frac{194}{61}/000/011/030/070 \text{D256}/D302

USSR concerning the development of new methods of management, interduction of standard structures of management, methods of standardization of the number of administrative staff, and also the development of industrial management based upon mechanization and automation of technical-engineering and administrative-managerial processes. The development of radio electronics is reviewed as the technical foundation of scientific control organization, i.e. cybernetics. Abstracter's note: Complete translation 7

Card 2/2







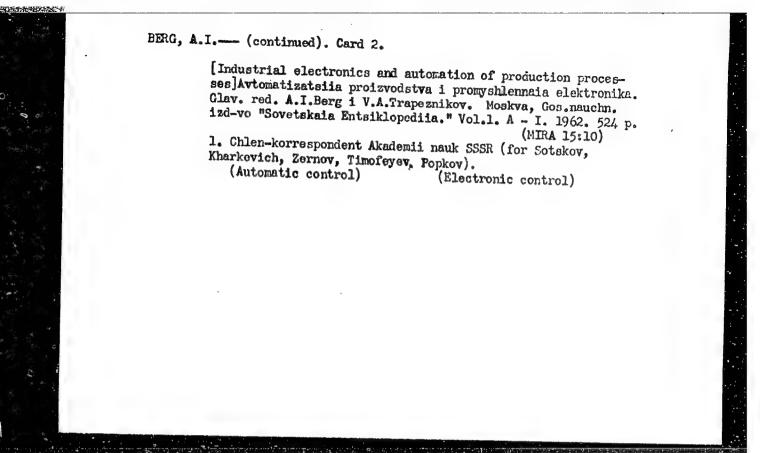
ARZUMANYAN, A.A., akademik; HERG, A.I., akademik; ZHUKOV, Ye.M., akademik; SEMENOV, N.E., akademik; VINOGRADOV, V.V., akademik; FRANTSEV, Yu.P.; SHCHERBAKOV, D.I., akademik; ANISIMOV, I.I.; GATOVSKIY, L.M.; IOVCHUK, M.T.; FEDOSEYEV, P.N., akademik; ROMASHKIN, P.S.; KONSTANTINOV, F.V.; MITIN, M.B., akademik; YELYUTIN, V.P.; PLOTNIKOV, K.N.; PRUDENSKIY, G.A.; YUDIN, P.F., akademik; RYBAKOV, B.A., akademik; KONSTANTINOV, B.P., akademik; KHYOSTOV, V.M.; KEDROV, B.M.; MARKOV, A.A.; BAISHEV, S.B., akademik; ALEKSEYEV, M.N., prof.; SKAZKIN, S.D., akademik; ALEKSANDROV, A.D.; POSPELOV, P.N., akademik

Discussion of L.F. Il'ichev's rreport. Vest. AN SSSR 32 mo.12:19-50 D '62. (MIRA 15:12)

1. Chleny-korrespondenty AN SSSR (for Aleksandrov, Frantsev, Anisimov, Gatovskiy, Iovchuk, Romashkin, Konstantinov, Yelyutin, Plotnikov, Prudenskiy, Khvostov, Kedrov, Markov). 2. AN Kazakhskoy SSR (for Baishev).

(Research)

BERG, A.I., glav. red.; TRAPEZEDKOV, V.A., glav. red.; BERKOVICH, D.M., zami glav. red.; LEMIER, A.Ya., doktor tekhn. nauk, prof., zam. glav. red.; AVEN, O.I., red.; AGEYKIN, D.I., red.; kand. tekhm. nauk, dots., red.; AYZERMAN, M.A., red.; VENIKOV, V.A., doktor tekhn. nauk, prof., red.; VORONOV, A.A., doktor tekhn. nauk, prof., red.; GAVRILOV, M.A., doktor tekhn. nauk, prof., red.; ZERNOV, D.V., red.; IL'IN, V.A., doktor tekhn. nauk, prof., red.; KITOV, A.I., kand. tekhn. nauk, red.; KOGAK, B.YA., doktor tekhn. nauk, red.; KOSTOUSOV, A.I., red.; KRINITSKIY. N.A., kand. fiz.-mat. nauk red.; LEVIN,G.A., prof.red.; LOZINSKIY, M.G., doktor tekhn. nauk, red.: 1055IYEVSKIY, V.1. red.; MAKSAREV, Yu.Ye., red.; MASLOV, A.A., dots., red.; POPKOV, A.A., red.; RAKOVSKIY, M.Ye., red.; AOZENBERG, L.D., doktor tekhn.nauk, prof., red.; SOTSKOV, B.S., red.; TIMOFEYEV, P.V., red.; USHAKOV, V.B., doktor tekhn. nauk, red.; FIL DBAUK, A.A., doktor tekhm. nauk, prof., red.; FROLOV, V.S., red.; KHARKEVICH, A.A., red.; KHRAMOY, A.V., kand. tekhn. nauk, red.; TSYPKIN, Ya.Z., doktor tekhn. nauk, prof., red.; CHELYUSTKIN, A.B., kand. tekhn. nauk, red.; SHREYDER, Yu.A., kand. fiz.mat. nauk, dots., red.; BOCHAROVA, M.D., kund. tekhn.nauk, starshiy nauchnyy red.; DELONE, N.N., inzh., nauchnyy red.; BARANOV, V.I., nauchnyy red.; PAVLOVA, T.I., tekhn. red. (Continued on next card)



s/026/62/000/007/002/005 p050/p113

AUTHOR:

Borg, A.I., Academician

TITLE:

A science of immense potentialities

PERIODICAL: Priroda, no. 7, 1962, 16-22

TEXT: The author describes the nature of cybernetics and deals with the need for introducing cybernetic methods in Soviet industry and science. It is planned to reorganize the whole national economic system by establishing a network of efficient computing centers, equipped with super-highspeed a network of efficient computing centers, equipped with super-highspeed electronic computers, connected with planning, financing, transport, and electronic computers through a united system of technological automatic industrial organizations through a united system of technological automatic communication. This will enable leading organizations to receive in due time true information on the present state and trend of development of the country's national economy and to take necessary control measures. In industrial processes, automatic control devices are now beginning to produce high-quality final products in the shortest possible time and in the most advantageous way. Appropriate theoretical methods have been developed by the

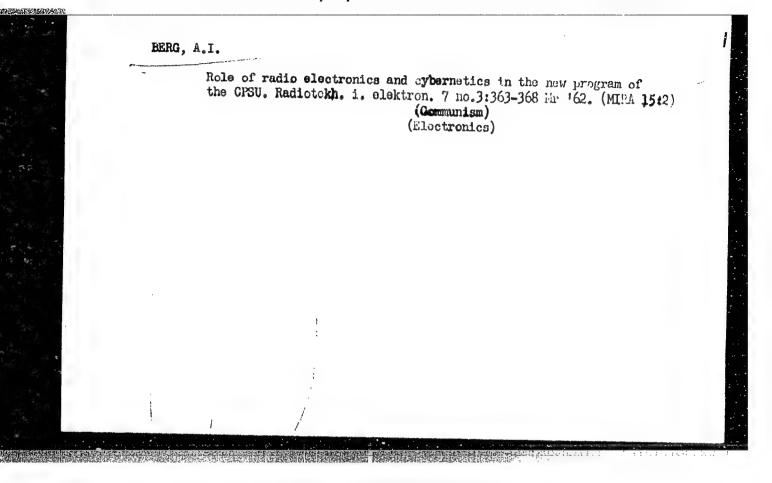
Card 1/2

S/026/62/000/007/002/005 D050/D113

A science of immense potentialities

school of Academician L.S. Pontryagin, and by Professor A.A. Fel'dbaum of the Institut avtomatiki i telemekhaniki Gosudarstvennogo komiteta po avtomatizatsii i mashinostroyeniyu (Institute of Automation and Telemechanics of the State Committee for Automation and Machinebuilding). The existing use and potential development of cybernetic methods and devices in medicine are also discussed. Important achievements have been reached by B.L. Astaurov, Corresponding Member of the Academy of Sciences, as regards sex and heredity. It has become necessary to design electronic devices for controlling the vital activity during operations. It is concluded that fast scientific progress and the solution of all tasks imposed on Soviet science is impossible without the introduction of cybernetic ideas and methods.

Card 2/2



PEKELIS, V.D.; BERG, A., akademik, red.; KOL'MAN, E., akademik, red.; RYCHKOVA, N.G., red. izd-va; PRUSAKOVA, T.A., tekhn. red.

[The possible and impossible in cybernetics] Vozmozhnoe i nevozmozhnoe v kibernetike; sbornik statei. Moskva, Izd-vo AN SSSR, 1963. 221 p.

K

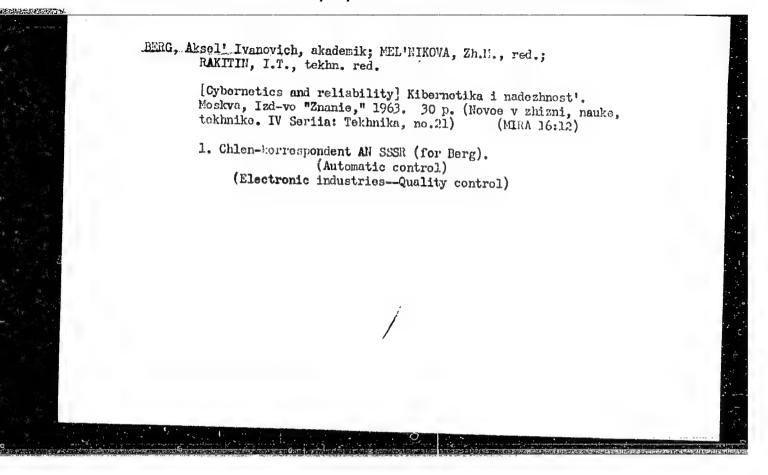
EERG, A.I., glav. red.; TRAPEZNIKOV, V.A., glav. red.; BOCHAROVA,
M.D., kand. tekhn. nauk, st. nauchm. red.; DELONE, N.N.,
inzh., st. nauchm. red.; BARANOV, V.I., nauchm. red.;
ZABELINA, Ye.P., mlad. red.; PAVLOVA, T.I., tekhn.red.

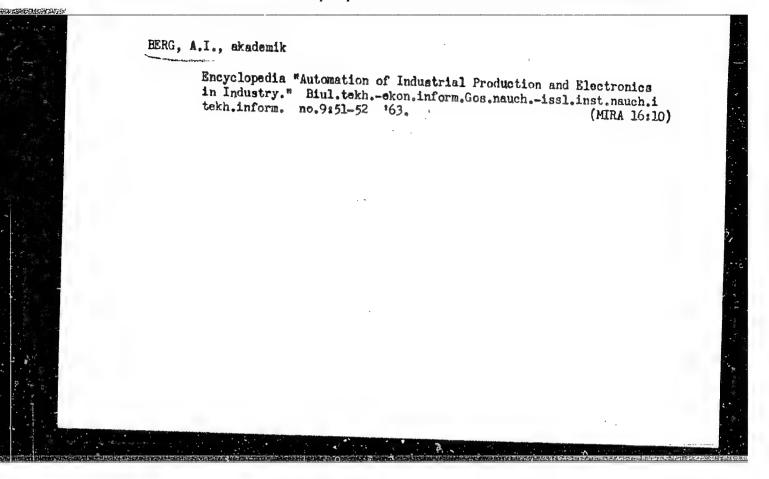
[Automation of production processes and industrial
electronics; encyclopedia of modern technology] Avtomatizatsiia proizvodstva i promyshlermaia elektronika; entsiklopediia sovremennoi tekhniki. Glav. red. A.I.Berg i
V.A.Trapeznikov. Moskva, Sovetskaia entsiklopediia.
Vol.2. K - Pogreshnost' izmereniia. 1963. 528 p.

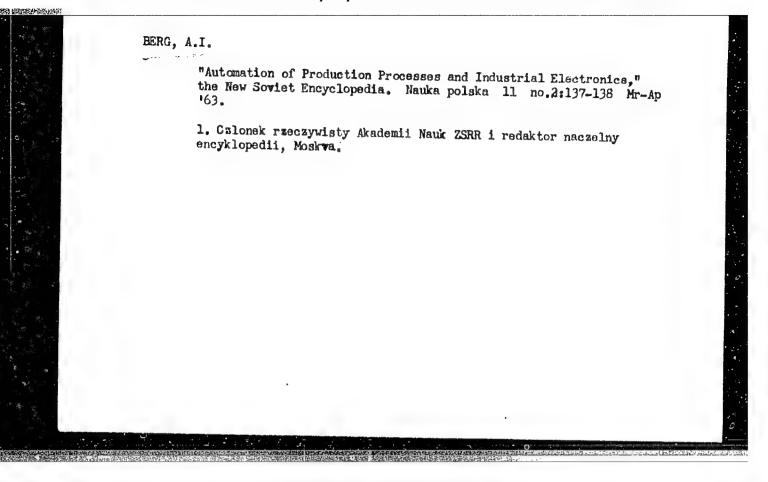
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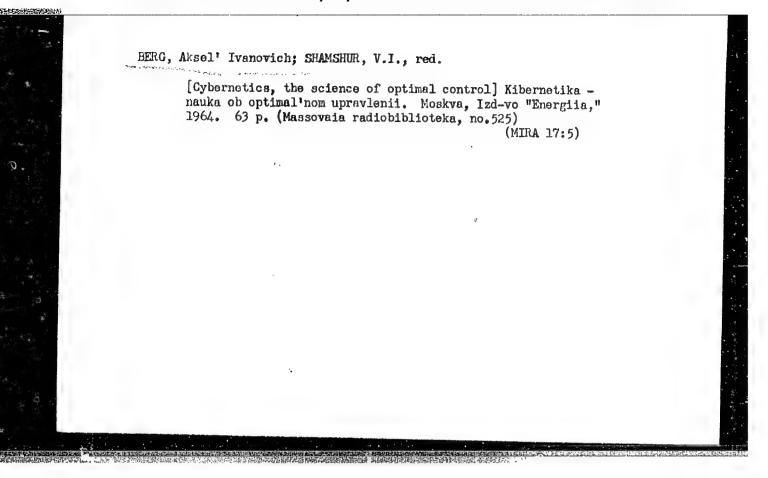
(Automation—Dictionaries)

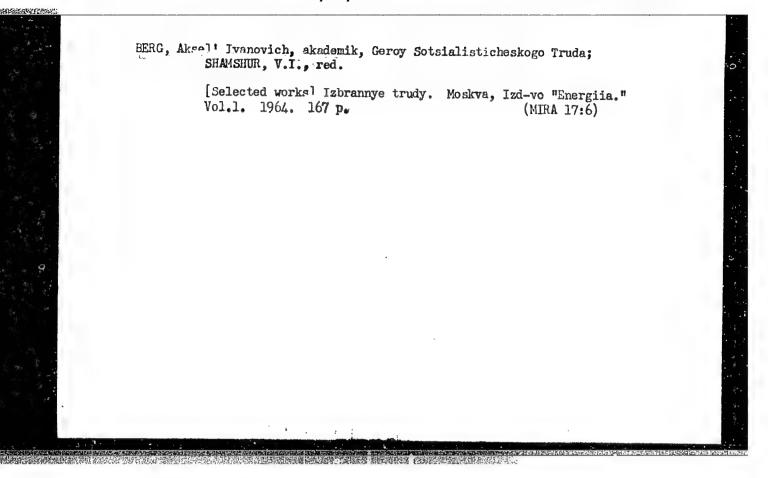
(Electric engineering—Dictionaries)











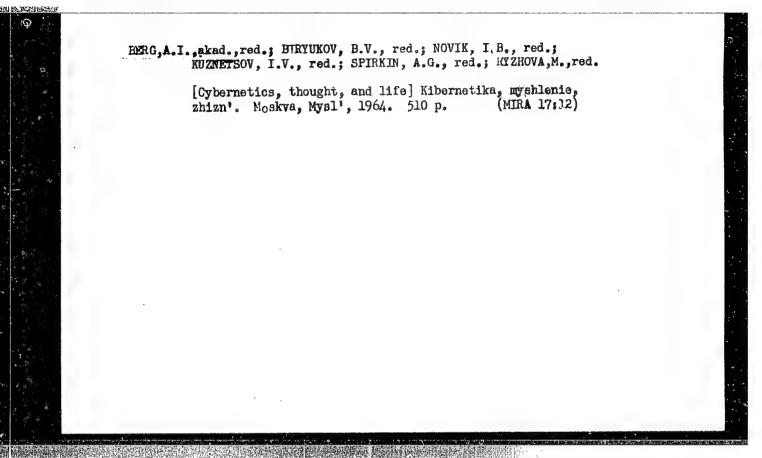
BERG, A.I., akademik, red.; BRUYEVICH, N.G., akademik, red.; GNEDENKO, B.V., akademik, red.; SHAMMUR, V.I., red.

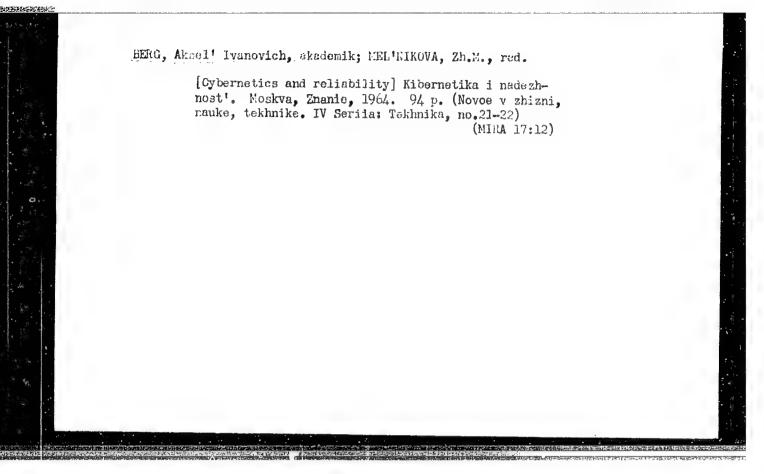
[Cybernotics in the service of communism] Kibernetiku na sluzhbu kommunizmu. Moskva, Energiia. Vol.2. [Theory of reliability and the queueing theory] Teoriia madezhnosti i teoriia massovogo obsluzhivaniia; sbornik statei. 1964.. 367 p. (MIR/. 17:11)

1. Akademiya nauk SSSR (for borg, Bruyevich, Gnedenko).

BERG, A.I., glav.red.; TRAPEZNIKOV, V.A., glav.red.; TSYPKIN, Ya.Z., doktor tekhn.nauk, prof., red.; SOTSKOV, B.S., doktor tekhn.nauk, red.; AGEYKIN, D.I., doktor tekhn.nauk, red.; GAVRILOV, M.A., red.; VENIKOV, V.A., doktor tekhn.nauk, prof., red.; CHELYUSTKIN, A.B., doktor tekhn.nauk, red.; PROKOF'YEV, V.N., doktor tekhn.nauk, prof., red.; KITOV, A.I., doktor tekhn.nauk, red.; KRINITSKIY, N.A., kand. fiz.—matem.nauk, red.; KOGAN, B.Ya., doktor tekhn.nauk, red.; USHAKOV, V.B., doktor tekhn.nauk, red.; LENNEN, Yu.A., doktor tekhn.nauk, red.; SHREYDER, Yu.A., kand. fiz.—mat. nauk, dots., red.; KIARKEVICH, A.A., akad., red.; TIMOFEYEV, P.V., red.; MASLOV, A.A., dots., red.; LEVIN, G.A., prof., red.; LOZINSKIY, M.G., doktor tekhn.nauk, red.; NETUSHIL, A.V., doktor tekhn.nauk, prof., red.; FOPKOV, V.I., red.; ROZENBERG, L.D., doktor tekhn.nauk, prof., red.; LIVSHITS, A.L., kand.tekhn.nauk, red.

[Automation of production and industrial electronics] Avtomatizatsiia proizvodstva i promyshlennaia elektronika; entsiklopediia sovremennoi tekhniki. Moskva, Sovetskaia Entsiklopediia. Vol.3. Pogreshnost' resheniia - Teleizmeritel'naia sistema chastotnaia. 1964. 487 p. (MIRA 17:10)
1. **Chlen-korrespondent** AN SSSR (for Sotskov, Gavrilov, Timofeyev, Fopkov).





KELER, V.R., otv. red.; MILLIONSHCHIKOV, M.D., akademik, red.;

BLOKHIN, N.N., red.; BLOKHINTSEV, D.I., red.; GNEDENKO,

B.V., akademik, red.; ZAYCHIKOV, V.N., red.; KELDYSH, M.V.,

akademik, red.; KIRILLIN, V.A., akademik, red.; KORTITOV,

V.V., red.; MONIN, Andrey Sergeyevich, prof., doktor fiz.—

matem. nauk, red. (1921); NESMEYANOV, A.N., akademik, red.;

PARIN, V.V., red.; REBINDER, F.A., akademik, red.; SEMENOV,

N.N., akademik, red.; FOK, V.A., akademik, red.; FRANTSOV,

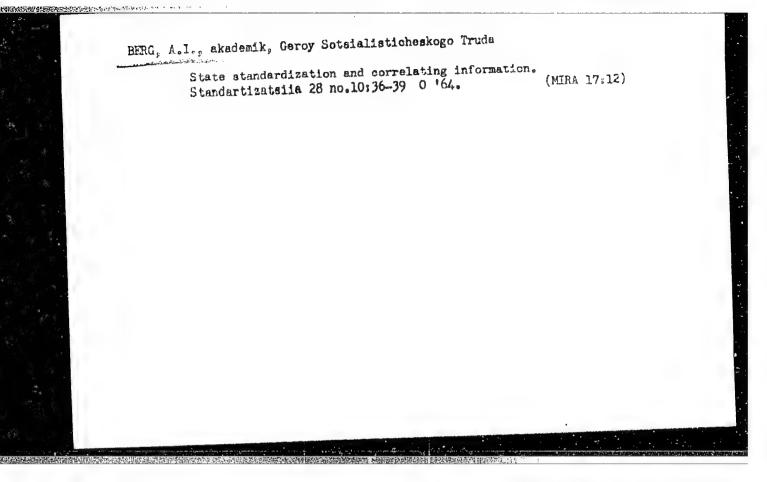
G.P., akademik, red.; ENGEL GARDT, V.A., akademik, red.;

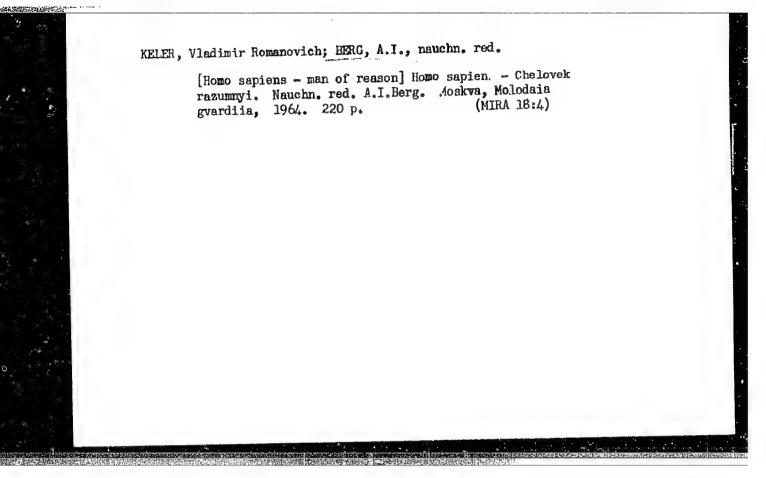
KREMNEVA, G., red.; BALASHOVA, A., red.; BERG, A.I., akademik, red.

[Science and mankind, 1964; simple and precise information about the principal developments in world science] Nauka i chelovechestvo, 1964.; dostupno i tochno o glavnom v mirovoi nauke. Moskva, Izd-vo "Znanie," 1964. 424 p.

(MIRA 18:1)

1. Deystvitel nyy chlen ANN SSSR (for Blokhin, Parin) 2. Chlen-korrespondent AN SSSR (for Blokhintsev). 3. Akademiya nauk SSSR Ukr.STR (for Gnedenko).





BERG, A.I., glav. red.; TRAFEZNIKOV, V.A., glav. red.; TSYFKIK, Ya.Z., doktor tekhn. nauk, prof., red.; VORONOV 1.3. prof., red.; AGEYKIN, D.I., doktor tekhn.nauk red.; GAVRILOV, M.A., red.; VENIKOV, V.A., doktor tekhn. nauk, proi., red.; SOTSKOV, B.S., red.; CHELYUSTKIN, A.B., doktor tekhn. nauk, red.; PROKOF'YEV, V.N., doktor tekhn. nauk, prof., red.; IL'IN, V.A., doktor tekhn. nauk, prof., red.; KITOV, A. I., doktor tekhn. nauk, red.; KRINITSKIY, N.A., kand. fiz. mat. nauk, red.; KOGAN, B.Ya., doktor tekhn. nauk, red.; USHAhov, V.B., doktor tekhn. nauk, red.; LERNER, A.Ya., doktor tekhn. nauk, prof., red.; FEL'DBAUM, A.A., doktor tekhn. nauk, prof., red.; SHREYDER, Yu.A., kand. fiz.-mat. nauk, red.; KHARKEVICH, A.A., akademik, red. [deceased]; TIMOFEYEV, P.V., red.; MASLOV, A.A., dots., red.; TRUTKO, A.F., inzh., red.; LEVIN, G.A., prof., red.; LOZINSKIY, M.G., doktor tekhm. nauk, red.; NETUSHIL, A.V., doktor tekhn. nauk, prof., red.; POPKOV, V.I., red.; ROZENBERG, L.D., doktor tekhn. nauk, prof., red.; LIFSHITS, A.L., kand. tekhm. nauk, red.; AVEN, O.I., kand. tekhn. nauk, red.; BLANN, O.M [Blunn, O.M.], red.; BROYDA, V., inzh., prof., red.; BREKKL', L [brockl,L.] inzh., knad. nauk, red.; VAYKHARDT, Kh. [Weichardt, H.], inzh., red.; EOCHAROVA, M.D., kand. tekhn. nauk, st. nauchn. red.

[Automation of production processes and industrial electronics]
Avtomatizatsiia proizvodstva i promyshlennaia elektronika; entsiklopedila sovremennoi tekhniki. Moskva, Sovetskaia entsiklopedila.
Vol.4. 1965. 543 p.

GAAZE-RAPOPORT, M.G., otv. red.; YAKOBI, V.E., otv. red.;

BERG, A.I., red.; GURFINKEL', V.S., red.; KOVALEVSKIY,

V.A., red.; KLEYNENBERG, S.Ye., red.; MANTEYFEL', B.P.,

red.; NAUMOV, N.P., red.; PARIN, V.V., red.; FOLYANTSEV,

V.A., red.; SOTSKOV, B.S., red.;

[Bionics] Bionika. Moskva, Nauka, 1965. 475 p. (MIRA 18:12)

1. Akademiya nauk SSSR. Nauchnyy sovet po kompleksnoy probleme.

"Kibernetika."

ACC NR. AM5025167 MONOGRAPH

Berg, Aksel' Ivanovich (Academician)

Selected works (Izbrannyye trudy) v. 2. Moscow, Izd-vo "Energiya", 1964. 223 p. Errata slip inserted. 1,600 copies printed.

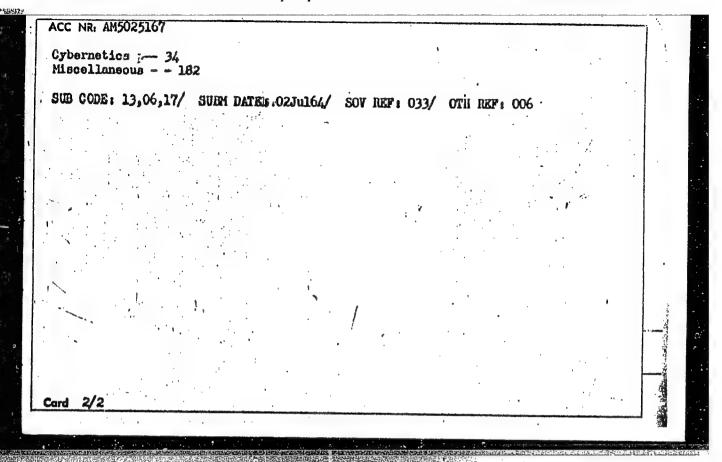
TOPIC TAGS: automation, automatic control, cybernetics, optimal automatic control, reliability engineering, radio equipment, electronic equipment

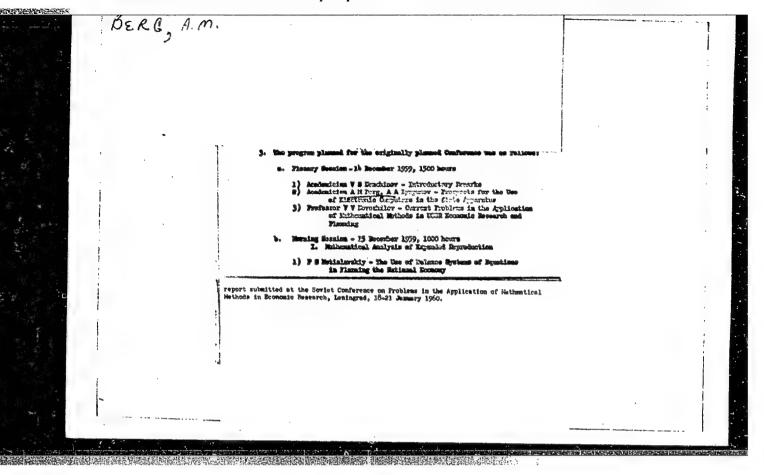
PURPOSE AND COVERAGE: This book contains 24 selected articles, lectures, reports, and speeches published in various periodicals since 1957. The selected works, dealing with cybernetics and reliability of radioelectronic equipment, point out the many-sidedness and exceptional value of cybernetics as a science of optimal control for use in various fields of science, engineering, industry, and economics. The book is intended for people interested in the development and practical application of cybernetics.

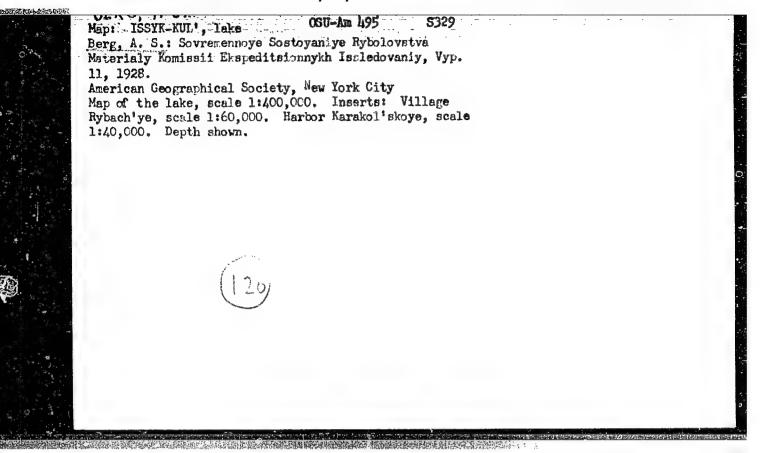
TABLE OF CONTENTS! [abridged]:

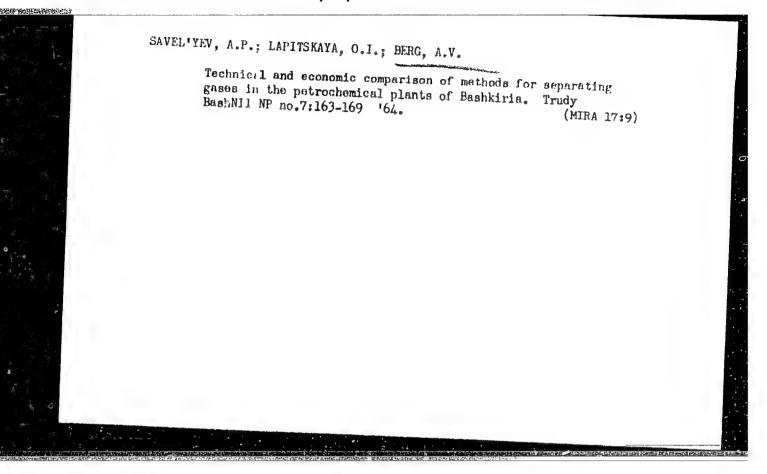
Foreword - - 5
Problems of reliability - - 7

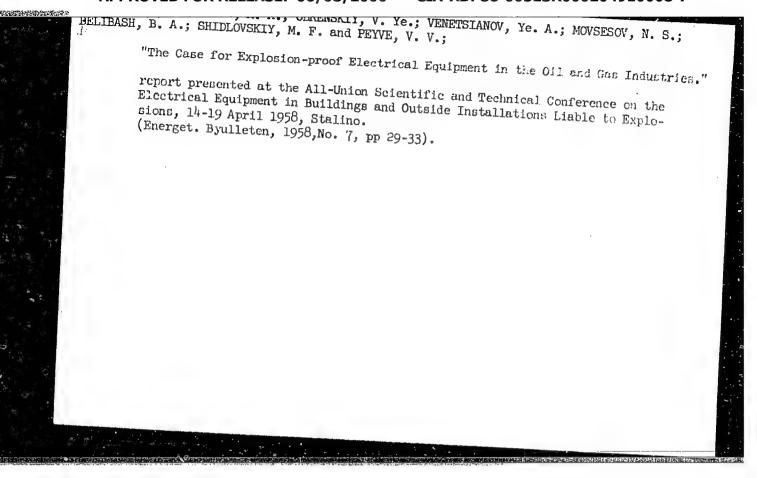
Cord 1/2

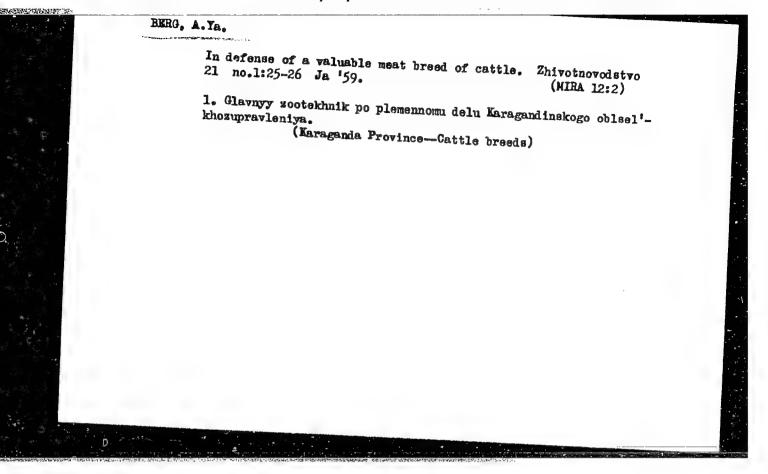












AUTHOR:

Berg, B.A. (Leningrad)

40-22-1-6/15

TITLE:

On Deformation Anisotropy

(O deformatsionnoy anizotropii)

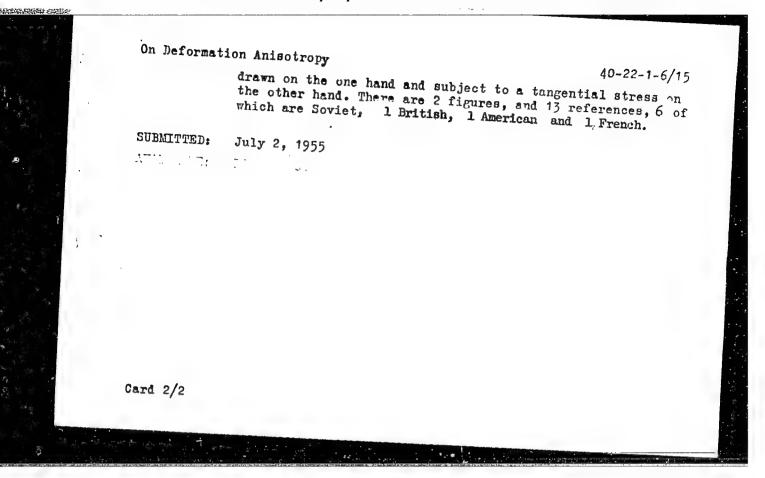
PERIODICAL:

Prikladnaya Matematika i Mekhanika, 1958, Vol 22, Nr 1,

ABSTRACT:

In this paper a deformation-anisotropy is understood to be an anisotropy which arises in the body by a previous deformation. The following problem is considered: From a certain initial state a body is subject to two different elastic deformations one after another. It is shown that, if the first deformation is homogeneous and does not correspond to the uniform universal push or pull state, in the second deformation the body in general behaves like an orthotropic body. The main directions of elasticity of this orthotropic body coincide with the main axes of the homogeneous deformation, and the elastic constants can be expressed by the constants of the original first deformation of the body. This knowledge renders possible to apply the set-ups of the theory of anisotropic bodies for the solution of the problem. As an example the author calculates the simultaneous torsion on a drawn bar, furthermore the existence of bending for a plate which is

Card 1/2



ACC NR AP6024637

JD/WW/WH SOURCE CODE: UR/0170/66/011/001/0042/0047

AUTHOR: Berg, B. V.; Baskakov, A. P.

B

ORG: Polytechnic Institute, Sverdlovsk (Politekhnicheskiy institut)

TITLE: Experimental study of heat exchange between a fluidized bed and a cylindrical surface

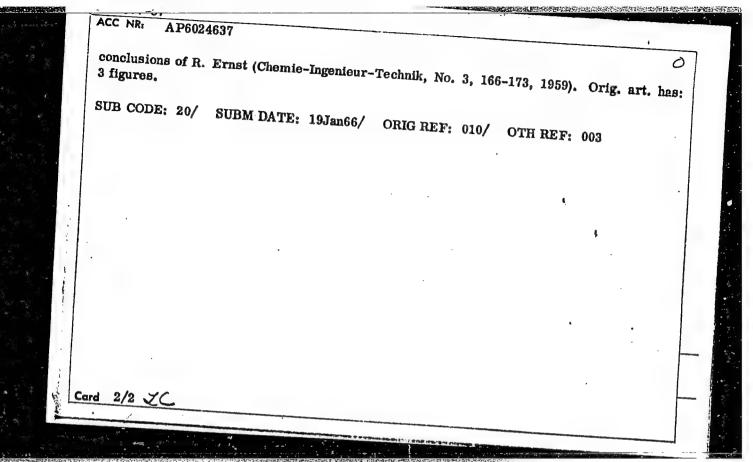
SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 11, no. 1, 1966, 42-47

TOPIC TAGS: heat exchange, industrial heat exchanger, heat process, fluidized bed, wire, corundum, near Transfee OFFFICIENT

ABSTRACT: In conjunction with the investigation of heat treatment of wires in fluidized inds. the authors carried out the experimental verification of the influence of wire cylinder radius on heat exchange, and the heat exchange of a cylinder moving transversely in a fluidized bed. Specific studies were made of heat transfer between a fluidized bed of corundum particles of 60, 120, and 320 microns and fixed, cylindrical, varying diameter (3-20 mm) calorimeters, as well as between the particles and a cylinder 10 mm in diameter moving in a transverse direction. The heat transfer coefficient is found to increase appreciably with the decrease in cylinder diameter. Above 10 mm the diameter ceases to affect the heat transfer. A transverse motion of cylinders augments the heat transfer rate. These results disagree with the

Card 1/2

UDC: 541.182



USSR / Cultivated Plants. Fodder Crops.

M-5

Abs Jour

: Rof Zhur - Blolegiya, No 13, 1958, No. 58647

Author

: Borg, D. N.; Kilikeeva, M. A.

Inst

: Molotov University

Titlo

: Alfalfa Sowings in Kolkhoz! of the Molotov Oblast!

Orig Pub

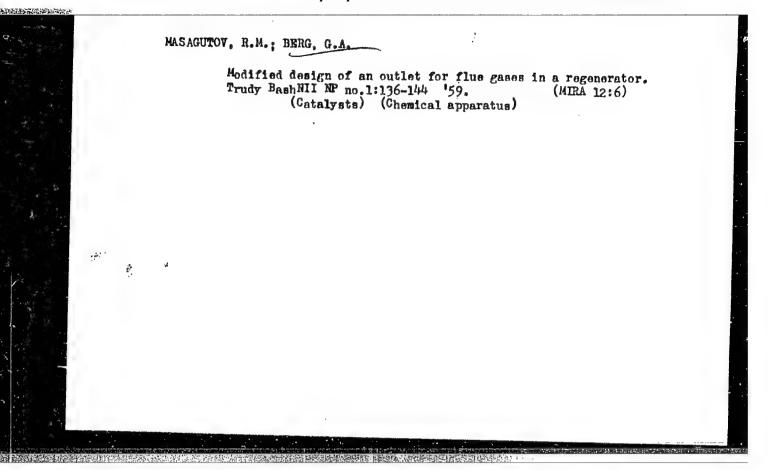
: Izv. Yestestv. nauchn. in-ta pri Molotovsk. un-te,

1957, 13, No 10, 65-74

Abstract

: No abstract given

Card 1/1

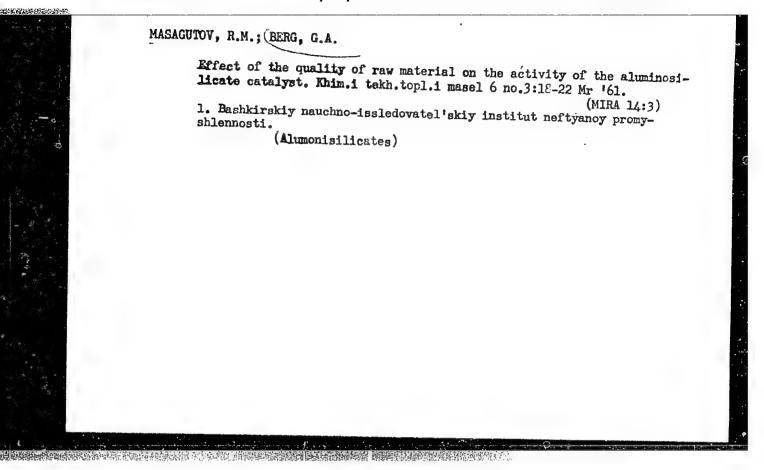


EYGENSON, A.S.; MASAGUTOV, R.M.; ZAITOVA, A. Ya.; VOLKOVA, L.I.; BERG, G.A.;
YEFIMOVA, A.K.

Effect of some physicochemical properties of raw stock on catalytic cracking indices. Trudy. Bash NII NP no.3:19-32
'60.

(Cracking process)

(Cracking process)



25036 \$/081/61/000/015/116/139 B102/B101

11.0140

Marushkin, B. K., Berg, G. A., Sidorocheva, L. V.,

Baydavletova, F. G.

TITLE:

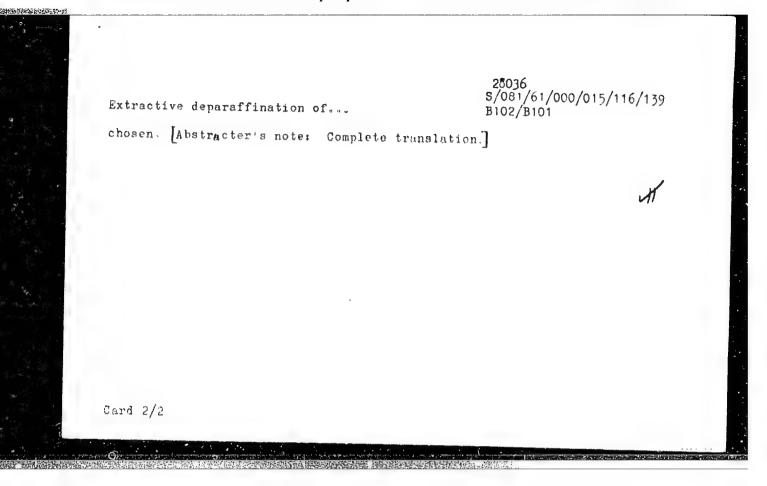
AUTHORS

Extractive deparaffination of diesel fuel

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 15, 1961, 480, abstract 15M192 (Sb. tr. Ufimsk. neft. in-ta, no. 3, 1960, 187 - 194)

TEXT: Deparaffination of the diesel fraction of Devonian petroleum (boiling point, 200 - 350°C; specific weight, 0.837; solidifaction point, -12°C; content of n-paraffines, 26% by weight) was used as an example to show that phenol extraction is a useful method for deparaffination of directly fractionated fuel. The separation of n-paraffins is considerably improved if the number of extraction stages is increased and if relatively narrow fractions are separated. A sharp increase of the phenol consumption improves the indices obtained only little. The clearness of separation attained in the experiments was insufficient to obtain a winter sort of diesel fuel solidification point, -35 or -45°C). It is, however, possible to improve the indices of the process if solvents of higher selectivity are Card 1/2



\$/081/61/000/013/011/028 B110/B205

AUTHORS:

Masagutov, R. M., Berg, G. A., Eygenson, A. S.

TITLE:

Purification of the raw material of catalytic cracking by

means of sulfuric acid

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 13, 1961, 516, abstract 13M205 (Tr. Bashkirsk. n.-i. in-t po pererabotke nefti,

1960, vyp. 4, 15-30)

TEXT: For the purpose of developing a simple and inexpensive method of preparing the raw material of catalytic cracking, attempts have been made to purify vacuum gas oils with sulfuric acid with subsequent catalytic cracking of the purified raw material. It was shown that an abrupt change in the equilibrium of catalytic cracking occurs if the raw material is purified with a) 80 % acid. Purifying the raw material with 2 % by volume of a 95 % acid increases the yield of gasoline and gas oil in catalytic cracking by 7-9 and 3-4 % by weight, respectively, for raw material from Tuymazy, and by 13-24 and 11-12 % by weight for raw material from Arlan. The yield of coke is lowered correspondingly. Intensified purification of the raw material

Card 1/2

Purification of the raw material...

S/081/61/000/013/011/028 B110/B205

increases the content of aromatics in catalytically cracked gasolines, and lowers the content of sulfurous and unsaturated compounds. An analysis of the material equilibrium makes it possible to recommend the purification of vacuum gas oils of sulfurous petroleum with sulfuric acid as a suitable method for preparing the raw material for catalytic cracking. [Abstracter's note: Complete translation.]

Card 2/2

26519 \$/065/61/000/008/002/009 E030/E135

11.0140

Masagutov, R.M., Berg, G.A., and Volkova, L.I. AUTHORS:

TITLE:

The effect of degree of hydrofining feedstock for

catalytic crackin

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No. 8,

pp. 8-13

This experimental investigation was to improve the yield and quality on cat. cracking high-sulphur, high-coking TEXT: crudes such as Chekmagush and Arlan; for such crudes, hydrofining is an obvious approach. Work was on the laboratory scale. The hydrofiner unit held 200 ml aluminocobalt molybdate catalyst, and the cat. cracker used alumino-silicate catalyst, of activity Cat. cracker space velocities were 0.7, 1.0 or 32-33 points. 1.5 per hour, and the cycle time 30 minutes. For hydrofining, optimum conditions were virtually independent of space velocity and consisted of 50 kg/cm² gas pressure and 370°C temperature. Comparing hydrofined and unhydrofined material under cracking conditions with identical coke formation (4.5% weight), the output of benzine fraction was increased from 36 to 61.5%. Card 1/2

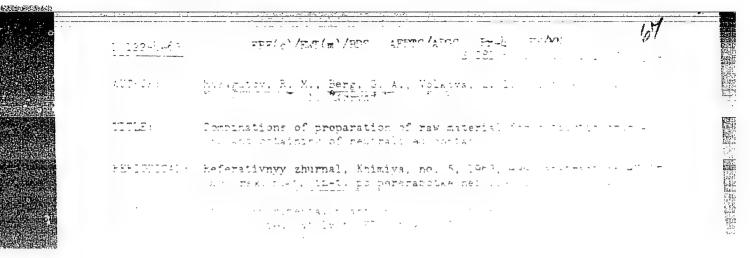
26519

The effect of degree of hydrofining.. \$/065/61/000/008/002/009 E030/E135

In order to obtain 1% sulphur diesel fuel from Chekmagush feed, it was necessary to hydrofine at 370°C,50 kg/cm2 pressure, and 0.8-1.0 per hour space velocity. There are 7 figures and 2 tables, and 22 references: 10 Soviet and 12 non-Soviet. The English-language references read as follows: Ref. 13: Viland, C.K. Petroleum Refiner, 36, No. 3, 197-220, 1958; Ref.14: Samnelson, G.I., Woelflin, W. Petr. Ref., 38, No.3, 211-223, 1959; Ref.16: Abbott, M.D., Archibald, R.C., Dorn, R.W. Oil and Gas J., 56, No. 20, 144, 1958; Williams, C.C., Abbott, M.D. Petrol. Eng.

ASSOCIATION: BashNII NP

Card 2/2



Combinations of preparation S/081/63/000/005/051/075

s/744/62/000/005/002/003 1060/1260

AUTHORS:

Masagutov, R.M., Berg, G.A., and Volkova, L.I.

TITLE:

Preliminary rurification by hydrogenation of crude oils treated

by catalytic cracking

SOURCE:

Ufa. Bashkirskiy nauchno-issledovatel skiy institut po percrabetke nefti. Trudy. no. 5. 1962. Sernistyye nefti

i produkty ikh perorabotki. 77-88 ·

TEXT: The process of catalytic cracking is particularly sensitive to impurities contained in crude oils, like nitrogen and various metals, which tend to poison the catalyst, with a consequent increase of the amount of coke at the expense of lighter fractions.

The author concludes that the best method of purification is by hydrogenation, apart from the drawback of requiring large amounts of hydrogen, depending on the quantities of crude treated and the intensity of the hydrogenation process.

Experiments by the author give the optimum conditions for purification prior to catalytic cracking as: pressure 50 atm., temperature 370°C,

Card 1/2

"APPROVED FOR RELEASE: 06/08/2000

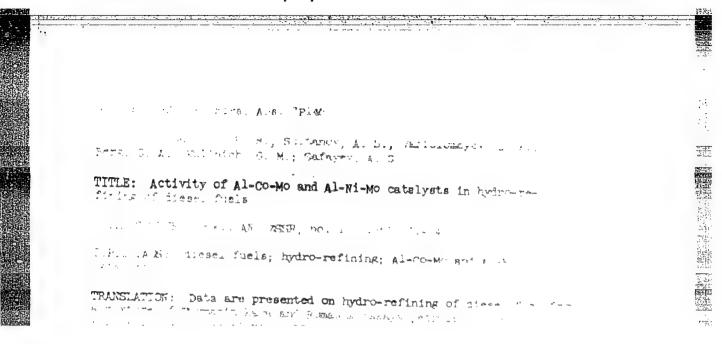
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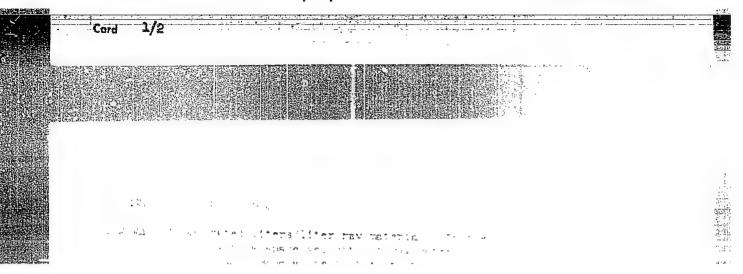
Proliminary purification...

S/744/62/000/005/002/003
1060/1260

circulation of hydrogen 800/n1/1 of crude oil, volumetric velocity of crude generation.

There are 8 figures and 2 tables.





Cord 2/2

MASACUTOV, R.M.; BERG, G.A.; RISOV, B.Ya.; KONDARKOV, D.I.; GOLENKOVA, M.V.; KULINICH, G.M.; SKUNDINA, L.Ya.

Using gases of hydroforming processes. Trudy BashNII NP no.6:5-10 '63.

Using hydrogenation to purify a hydroforming product of catalysis. Ibid.:10-14 (MIRA 17:5)

MASAGUTOV, R.M.; BERG, G.A.; KIRILLOV, T.S.; VARFOLOMEYEV, D.F.; KULINICH, G.M.; SKUNDINA, L.Ya.

Hydrofining of diesel fuel from high sulfur-bearing crude with a decreased consumption of hydrogen. Khim. i tekh. topl. i masel 8 no.12:7-12 D *63. (MIRA 17:1)

1. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti i Ufimskiy neftepererabatyvayushchiy zavod.

ACCESSION NR: AP4036978

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TITLE: Development of a process for high-purity cyclohexane

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TOPIC TAGS: cyclohexane, benzene, benzene hydrogenation, catalyst, nickel on kieselguhr, benzene purification, thiophene, sulfur compound, cyclohexane production

ABSTRACT: An industrial process for cyclohexane has been developed on the basis of preliminary pilot tests. Cyclohexane of adequate purity was produced by the one-step hydrogenation of benzene (cyclohexane content, < 0.4%; thiophene content, < 0.00001%) on technical-grade. nickel on kieselguhr catalyst under the following conditions: pressure 10 kg/cm² gage; space velocity of benzene feed, 0.5—0.6 hr⁻¹; maximum reactor temperature, 120—150C; hydrogen/benzene ratio, 3000

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m3/m3. Catalyst activity did not drop after 15 days of continuous service. However, the degree of conversion of benzenc containing 0.08% thiophene and 0.010% carbon disulfide dropped rapidly from 100 to 60%. Thus, a study was made of the possibilities for the preliminary purification of benzene to remove sulfur compounds. The study took into account data from the literature which indicate that thiophene in contact with the catalyst surface simultaneously blocks five active nickel atoms. In hydrogen the adsorbed thiophene molecule can decompose with the formation of a hydrocarbon molecule and of an S atom. The S atom combines with a nickel atom, but the hydrocarbon molecule desorbs from the catalyst surface, liberates four previously bound Ni atoms, and increases the S adsorption capacity of the catalyst. The results of the study and laboratory experiments have made it possible to develop a large-scale unit for the production of cyclohexane from benzene (containing 0.1-0.8% cyclohexene, up to 0.03% hexane, 0.02% other hydrocarbons, and 0.01-0.04% total sulfur) under the following [approximative] conditions: pressure, normal; temperature, 110 to 150C; space velocity of benzene feed, 0.2-0.85hr hydrogen/benzene molar ratio, 9.5-20. The process is conducted in

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two steps: purification of benzene from S compounds and hydrogenation on two reactors connected in series. The unit has been in operation for two years. The cyclohexane is being used for making polyethylene.					
Orig. art. has: 3 figures and 2 tables.					
ASSOCIATION: BashNINP; OLUNPZ					
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